

1. Title of the Invention

Liquid Crystal Display Device

2. Claim

1. A liquid crystal display device comprising:
a substrate having electrodes formed thereon; and
a polyimide-based organic polymer film containing a minor amount of an epoxy resin for covering said substrate,
wherein said film serves as a liquid crystal alignment layer.

<Advantage>

The invention, which has been described above in detail, improves the alignment layer, whereby moisture can be prevented from permeating into a liquid crystal layer from the outside securely. Therefore, it is possible to increase the reliability of the device and to prevent the defect of characters' smear.

4. Brief Description of the Drawings

Fig. 1 is a partial side sectional view of a conventional liquid crystal display device.

Fig. 2 is a side sectional view of an embodiment of a liquid crystal display device according to the invention.

In the drawings, what the reference numerals indicate are as follows.

- 1: GLASS SUBSTRATE
- 2: UNDERLYING LAYER
- 3: TRANSPARENT CONDUCTIVE FILM
- 4: POLYIMIDE-BASED ORGANIC ALIGNMENT LAYER
- 4': POLYIMIDE-BASED ORGANIC ALIGNMENT LAYER CONTAINING A MINOR AMOUNT OF EPOXY RESIN
- 5: LIQUID CRYSTAL
- 6: SEAL MATERIAL
- 7: ORGANIC SILANE COUPLING AGENT